

**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

*(Only for new nonprovisional applications under 37 CFR 1.53(b))*

Attorney Docket No.

169.1322

First Named Inventor or Application Identifier

STEPHEN LESLIE TYLER

Express Mail Label No.

**APPLICATION ELEMENTS**

*See MPEP chapter 600 concerning utility patent application contents.*

**ADDRESS TO:**

Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

☒ Fee Transmittal Form

*(Submit an original, and a duplicate for fee processing)*

☒ Specification

Total Pages

☒ Drawing(s) (35 USC 113)

Total Sheets

☒ 4.

Oath or Declaration

Total Pages

a. ☐

Newly executed (original or copy)

b. ☒

Unexecuted for information purposes

c. ☐

Copy from a prior application (37 CFR 1.63(d))  
*(for continuation/divisional with Box 17 completed)*  
**[Note Box 5 below]**

i. ☐

**DELETION OF INVENTOR(S)**

Signed Statement attached deleting inventor(s) named in  
the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).

☐ 5.

**Incorporation By Reference** *(useable if Box 4c is checked)*

The entire disclosure of the prior application, from which a copy of the oath or  
declaration is supplied under Box 4c, is considered as being part of the disclosure of  
the accompanying application and is hereby incorporated by reference therein.

☐ 6.

Microfiche Computer Program *(Appendix)*

☐ 7.

Nucleotide and/or Amino Acid Sequence Submission  
*(if applicable, all necessary)*

a. ☐

Computer Readable Copy

b. ☐

Paper Copy (identical to computer copy)

c. ☐

Statement verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

☐ 8.

Assignment Papers (cover sheet & documents)

☐ 9.

37 CFR 3.73(b) Statement  
*(when there is an assignee)*

☐

Power of Attorney

☐ 10.

English Translation Document *(if applicable)*

☐ 11.

Information Disclosure  
Statement (IDS)/PTO-1449

☐

Copies of IDS  
Citations

☒ 12.

Preliminary Amendment

☒ 13.

Return Receipt Postcard (MPEP 503)  
*(Should be specifically itemized)*

☐ 14.

Small Entity  
Statement(s)

☐

Statement filed in prior application  
Status still proper and desired

☐ 15.

Certified Copy of Priority Document(s)  
*(if foreign priority is claimed)*

☐ 16.

Other: \_\_\_\_\_

17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information:

☐

Continuation

☐

Divisional

☐

Continuation-in-part (CIP)

of prior application No. \_\_\_\_\_

**18. CORRESPONDENCE ADDRESS**

☒

Customer Number or Bar Code Label

05514

*(Insert Customer No. or Attach bar code label here)*

☐

or Correspondence address below

NAME

Address

City

State

Zip Code

Country

Telephone

Fax



CLAIMS	(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) CALCULATIONS
	TOTAL CLAIMS (37 CFR 1.16(c))	72-20 -	52	X \$ 18.00 -	\$ 936.00
	INDEPENDENT CLAIMS (37 CFR 1.16(b))	3-3 -	0	X \$ 78.00 -	\$ 00.00
	MULTIPLE DEPENDENT CLAIMS (if applicable) (37 CFR 1.16(d))			\$260.00 -	\$ 260.00
				BASIC FEE (37 CFR 1.16(a))	\$ 760.00
			Total of above Calculations -		\$1956.00
	Reduction by 50% for filing by small entity (Note 37 CFR 1.9, 1.27, 1.28).				
TOTAL -					\$1956.00

19. Small entity status

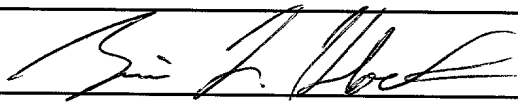
- a. ☐ A Small entity statement is enclosed
- b. ☐ A small entity statement was filed in the prior nonprovisional application and such status is still proper and desired.
- c. ☐ Is no longer claimed.

20. ☒ A check in the amount of \$ 1956.00 to cover the filing fee is enclosed.

21. ☐ A check in the amount of \$ to cover the recordal fee is enclosed.

22. The Commissioner is hereby authorized to credit overpayments or charge the following fees to Deposit Account No. 06-1205:

- a. ☒ Fees required under 37 CFR 1.16.
- b. ☐ Fees required under 37 CFR 1.17.
- c. ☐ Fees required under 37 CFR 1.18.

<b>SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED</b>	
NAME	Brian L. Klock, Reg. No. 36,570
SIGNATURE	
DATE	June 2, 1999

169.1322

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
STEPHEN LESLIE TYLER ) : Examiner: Unassigned  
Appln. No.: Unassigned ) : Group Art Unit: Unassigned  
Filed: Concurrently Herewith ) :  
For: PRINT ENABLEMENT IN ) : June 2, 1999  
SOFTWARE SYSTEMS ) :

The Assistant Commissioner for Patents  
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Sir:

Prior to examination on the merits, please amend  
the above-identified application as follows:

IN THE CLAIMS:

5. (Amended) A method according to claim 1 [any  
one of the preceding claims], wherein said electronic  
document represents a conglomeration of user selected  
documents obtained via a traversal of a computer network.

6. (Amended) A method according to claim 5, [when  
not dependent on claim 2,] wherein said predetermined portion  
comprises a predetermined number of said selected documents.

Claim 10

Line 1, change "5 to 9" to --5-7--.

Claim 11

Line 1, change "3 to 10" to --5-7--.

Claim 12

Line 1, change "3 to 11" to --5-7--.

17. (Amended) An apparatus according to claim 13 [any one of the claims 13 to 16], wherein said electronic document represents a conglomeration of user selected documents obtained via a traversal of a computer network.

18. (Amended) An apparatus according to claim 17, [when not dependent on claim 14,] wherein said predetermined portion comprises a predetermined number of said selected documents.

Claim 22

Line 1, change "17 to 21," to --17 to 19--.

Claim 23

Line 1, change "15 to 22," to --17 to 19--.

Claim 24

Line 1, change "15 to 23," to --17 to 19--.

29. (Amended) A computer program product according to claim 25 [any one of claims 25 to 28], wherein said electronic document represents a conglomeration of user selected documents obtained via a traversal of a computer network.

30. (Amended) A computer program product according to claim 29, [when not dependent on claim 26,] wherein said predetermined portion comprises a predetermined number of said selected documents.

Claim 34

Line 1, change "29 to 33" to --29 to 31--.

Claim 35

Line 1, change "27 to 34" to --29 to 31--.

Claim 36

Line 1, change "27 to 35" to --29 to 31--.

REMARKS

The above amendments have been made to ensure proper claim dependencies. Favorable consideration and allowance of this application is requested.

Applicant's undersigned attorney may be reached in our Washington, D.C. office by telephone at (202) 530-1010. All correspondence should continue to be directed to our below-listed address.

Respectfully submitted,



Attorney for Applicant

Registration No. 36,570

FITZPATRICK, CELLA, HARPER & SCINTO  
30 Rockefeller Plaza  
New York, New York 10112  
Facsimile: (212) 218-2200

F506\W183572\BLK

## **PRINT ENABLEMENT IN SOFTWARE SYSTEMS**

### **Field of the Invention**

The present invention relates to computer-based facility enablement and, in particular, to the availability of computer printing facilities.

5

### **Background of the Invention**

Seldom in human history have people adopted a communications technology so widely and rapidly as users of the Internet have embraced the World Wide Web.

The Internet provides an ever increasing potential for information interchange, and in order to encourage individuals to take part in this communications revolution, many software providers supply free demonstration versions of their software on-line, sometimes called Free-ware and Share-ware. Individuals may dial-up the home page of a supplier and access the demonstration software for trial purposes. This may even involve down-loading the software onto the personal computer of the individual.

Free-ware and share-ware are attractive forms of software in marketing. However, one drawback in supplying software in this manner is that many never actually subscribe to buy the full version of the software continuing to utilise the demonstration version, which is sometimes powerful in its own right. Many software providers are therefore discouraged to provide demonstration versions of their software on-line.

It is an object of the present invention to substantially overcome, or at least ameliorate, one or more of the problems mentioned above.

### **Summary of the Invention**

In accordance with one aspect of the present invention there is disclosed a method for manipulating an electronic document automatically created by an application program, said method comprising the steps of:

identifying a user involved manipulation of said electronic document to determine if said invoked manipulation is one of a predetermined group of manipulations; wherein if said invoked manipulation is not a member of said group, allowing said invoked manipulation to proceed; or if said invoked manipulation is a

member of said group, allowing said manipulation to proceed only in respect of a predetermined portion of said electronic document.

Other aspects of the invention will be apparent from the following description.

### **Brief Description of the Drawings**

5 Fig. 1 is a block diagram of a computer system and network with which the preferred embodiment of the present invention can be practised;

Fig. 2 is a detailed block diagram of two world-wide web site structures;

Fig. 3 is a flow chart depicting operation of a print facility management system of one embodiment; and

10 Fig. 4 is a flow chart depicting another operation of a print facility management system of one embodiment.

### **Description of the Preferred Embodiment**

In order to access the Internet and traverse the World Wide Web, use is often made of special browsing software such as Microsoft Internet Explorer (Microsoft Corporation) or Netscape Navigator (Netscape Corporation). On entering a web site or  
15 some other location, various computer facilities become available to the user in order to manipulate data, programs and the like. Such facilities include the printing of data, copying, running software, listening to audio and receiving video data, amongst others. This may include or result in using Free-ware or Share-ware.

20 To assist users in being able to track and trace their traversal of the Web, Canon Information Systems Research Australia Pty Ltd has developed a product marketed under the trade mark WebRecord which is currently the subject of United States Patent Application No. 08/903,743 filed 31 July 1997. WebRecord operates in a background mode behind the browsing software to automatically and transparently  
25 create a printable document that includes the various Web sites and documents encountered by a user during a traversal of the Web.

The preferred embodiment of the present invention is implemented as an additional feature in WebRecord and has been developed to facilitate the marketing of WebRecord. However, the present invention is not limited to use with WebRecord or



other similar products, but has wider application and may for example be implemented in the browsing software, as will be appreciated by those skilled in the art having read and understood this specification.

The preferred embodiment is practised using a general-purpose computer system 5 connectable to a communication network 38 which provides links 33 to web sites 34 and 36. The computer system 5 includes a computer module 10, input devices such as a keyboard 12 and mouse 13, output devices including a printer 30 and a video display device 32. A modulator-demodulator (modem) transceiver device 44 is used by the computer module 10 for communicating to and from computer systems at other locations via the communications network 38, those computer systems for example include the web sites 34 and 36.

The computer module 10 has a number of components typically including at least one processor unit 14, a memory unit 18, for example formed from semiconductor random access memory (RAM) and read only memory (ROM), input/output (I/O) interfaces including a video interface 40, an I/O interface 42 for the keyboard 12 and mouse 13 and a communications interface 42 for the modem 44. A storage device 22 is provided and typically includes a hard disk drive 24 and a floppy disk drive 26. A CD-ROM drive 20 is typically provided as a non-volatile source of data. The components of the computer module 10, typically communicate via an interconnected bus 28 and in a manner which results in a conventional mode of operation of the computer system known to those in the relevant art. Examples of such computer systems 5 include IBM PC/AT and similar machines, Sun Sparcsations and Apple Macintosh. Further, the web-sites 34 and 36 may be implemented on such computer systems.

During an Internet or Web browsing session, a user of the computer system 5 enables operation of the browsing software which is typically stored in the hard disk drive 24 and which facilitates communications via the modem to provide a connection to a web-site.

Locations accessible via the communications network 38 are individually addressable using a Uniform Resource Locator (URL), well known in the art. The URL thus may be entered by the user of the computer system 5 to directly access a particular web-site. Alternatively, web-site documents and the like (including search engines) may include hyper-text which, when selected, provide direct links to locations identified by URL's associated with the hyper-text.

Fig. 2 shows a block diagram representation of two Internet web-sites 34,36 and their associated URL's. The computer module 10 can access the web-sites 34 and 36 via the modem 44 and communications network 38. The web-sites 34,36 can be accessed through both direct and indirect Internet connections, and through a variety of browsers. As seen in Fig. 2, web-site 34 provides access to information locations 46, 48 and 50 each of which has its own unique URL as illustrated. Similarly, web-site 36 access three information locations 52, 54 and 56 also having respective URL's.

It will be appreciated that the information accessed via the various URL's may include any combination of text, images, graphic objects, programs, raw data such as audio data and video data, for example. It is further seen from Fig. 2 that a location 47, accessible via location 46 or location 48 and having a unique URL (URL #9), includes an application program.

In the preferred embodiment, a demonstration version of WebRecord is made available to the public as the application program 47 and for which persons entering Web-site No. 1 have access. The application program 47 may be downloaded to the user's computer system 5 to enable the demonstration of WebRecord to be undertaken.

In the preferred embodiment, users of the demonstration version of WebRecord are free to make use of that program to generate an electronic document suitable for printing on the printer device 30. Typically, the electronic document would incorporate portions sourced from a variety of locations on the Internet and World Wide Web and generated from a single browsing session.

However, in the described embodiments, so as to encourage experimentation and evaluation of the application program, but whilst preventing substantial practical

use of the application program, the user is limited in respect of the printing of the electronic document. For example, the electronic document created by WebRecord is created containing, say, fifteen printable pages, the one embodiment permits the user, on any single printing call, to print only three pages. Accordingly, if the user wishes to print all fifteen pages, the user must perform five separate printing calls in order for the entire document to be printed. In an alternative embodiment, where the electronic document includes material sourced from a number of web locations, as defined by their URL's, printing is limited to only those portions sourced from a predetermined number of URL's.

In this fashion, the user is enabled to view the capacity of the software being trialed and print examples of the document created by the software, but is precluded from convenient use of the software through being limited in application.

Fig. 3 provides a flow chart of how one embodiment operates which illustrates a series of method steps 90 which commences with a start step 92 followed a decision step 94 which examines whether or not a print facility has been selected. If no such facility has been selected, control passes to step 96 which enables performance of the non-print facility, which concludes at step 98. An example of such a non-print facility may be "PrintPreview".

If print facility have been selected, this embodiment implements a step 100 which identifies those specific page numbers of the electronic document selected to be printed. As is usual in most print packages and the like, the user is able to select those particular pages from a multi-page document desired to be printed. In step 100, the preferred embodiment determines that the user has selected to print from page number "a" to page number "b". The process continues at step 130, where the user can select a printing reduction rate. For example, the user can select to print all the selected pages on one A4 size page. At the next step 132, the user can select a "print preview" function in order to preview the printed pages on screen before actual printing occurs.

Control then passes to step 102 where a test is performed to determine the actual number of pages that have been selected and whether or not they are within the

criteria established by the particular embodiment. In this case, page number "b" is subtracted from page number "a" and a test of whether or not that this less than a predetermined number of pages "x" is correct. If this is true, control passes to step 104 where printing from page number "a" to page number "b" inclusive is enabled, this  
5 corresponding to the user request.

If the test of 102 is not satisfied, control passes to step 106 where only a predetermined number of pages from page "a" are printed. In this case, step 106 identifies the calculation used to determine the total number of pages printed for an arbitrary value of "x". Control from each of steps 104 and 106 passes to a finishing  
10 step 108. In both steps 104 and 106 a print preview will occur if one has been requested by the user at step 132. In a preferred implementation of this embodiment, the value of "x" is 3.

Fig. 4 illustrates method steps 120 associated with the alternative embodiment mentioned above and which in many respects corresponds to the embodiment of Fig. 3 and in particular corresponding method steps have been given like reference numerals  
15 and to which it is noted the corresponding description applies. In the method 120, if print has been selected in step 94, step 122 prompts the user to identify those particular URL's of the multi-URL formatted document desired to be printed. In this embodiment these are identified as URLp and URLq. In step 124, the actual number of URL's to  
20 be selected for printing by the user is tested, again against an arbitrary number "x". If the number of URL's is less than or equal to the arbitrary number "x", control is passed to step 126 which prints the URL's selected by the user in step 122. If however the number of URL's exceeds the predetermined value "x", control passes to step 128 where printing is enabled from URLp to URLp+x-1 thereby limiting the total number  
25 of URL's to be printed to be the number "x".

With the alternative embodiment of Fig. 4, printing of the electronic document occurs independent of the number of pages that span the document and the number of pages which might be occupied by each URL.

For example, in a preferred implementation of WebRecord, information sourced from a number of URL's may appear on a single page of the printable document. In the alternative embodiment of Fig. 4, only the data sourced from a predetermined number of those URL's (eg. 3) is printed.

5           At steps 126 and 128 of Fig. 4, in one particular embodiment, when printing is enabled in each of the URL's identified by the user, control is passed to step 100 of Fig. 3 to identify those specific page numbers of each URL to be printed. For example, if data sourced from URLp is being printed at step 126 of Fig. 4, control will pass to step 100 of Fig. 3 and the preferred embodiment will determine that the user  
10       has selected to print from page number "a" to page number "b" of URLp. Control then passes to step 102 where a test is performed to determine the actual number of pages that have been selected and whether or not they are within the criteria established by the particular embodiment. Control then passes to either of steps 104 or 106 depending on the outcome of the test at step 102. Control from each of steps 104 and 106 will then  
15       pass back to step 126 to print the data from the next URL. This process will finish when the data from URLq is printed and control passes to step 108 of Fig. 4. In this fashion, the user is restricted to printing a certain number of pages from each URL. Thus again, experimentation and evaluation of the application program is encouraged, whilst preventing substantial practical use of the application program.

20           The foregoing provides a number of advantages over prior art software trialing systems. For example, many software trialing system enable printing of a product produced using the software but the printing is in some way obscured for example with the word "demo" printed in the background of the desired image thus detracting from the usefulness of the printed document. By enabling the user to print only a  
25       predetermined number of pages or a predetermined number of URL's, the user is able to utilise the trialed software for valuable purposes in order to assess its desirability for purchase. However, by using the print restriction feature of the described embodiment, multiple use of the application software is hampered and thus the user is enticed to obtain a production version of the software.

[illegible]

**The claims defining the invention are as follows:**

1. A method for manipulating an electronic document automatically created by an application program, said method comprising the steps of:

identifying a user involved manipulation of said electronic document to  
5 determine if said invoked manipulation is one of a predetermined group of  
manipulations; wherein if said invoked manipulation is not a member of said group,  
allowing said invoked manipulation to proceed; or if said invoked manipulation is a  
member of said group, allowing said manipulation to proceed only in respect of a  
predetermined portion of said electronic document.

2. A method according to claim 1, wherein said predetermined portion  
comprises a predetermined number of pages of said electronic document.

3. A method according to claim 1 or 2, wherein said group includes a  
15 printing function.

4. A method according to claim 3, wherein said printing function is the  
only member of said group.

20 5. A method according to any one of the preceding claims, wherein said  
electronic document represents a conglomeration of user selected documents obtained  
via a traversal of a computer network.

25 6. A method according to claim 5, when not dependent on claim 2,  
wherein said predetermined portion comprises a predetermined number of said selected  
documents.

7. A method according to claim 6, wherein associated with each said selected document of said combination is a document location identifier, and said predetermined portion is determined using said document location identifiers.

5

8. A method according to any one of claims 5 to 7, wherein said manipulation is allowed to proceed only in respect of a predetermined portion of each said electronic documents.

10

9. A method according to claim 8, wherein said predetermined portion comprises a predetermined number of pages of an electronic document.

10. A method according to any one of claims 5 to 9, wherein said group includes a printing function.

15

11. A method according to any one of claims 3 to 10, wherein said printing function includes a print reduction function.

12. A method according to any one of claims 3 to 11, wherein said printing function includes a print preview function.

20

13. An apparatus for manipulating an electronic document automatically created by an application program, said apparatus comprising:

identifying means for identifying a user involved manipulation of said electronic document to determine if said invoked manipulation is one of a predetermined group of manipulations;

25

allowing means for allowing said invoked manipulation to proceed if said invoked manipulation is not a member of said group; or if said invoked manipulation is



a member of said group, allowing said manipulation to proceed only in respect of a predetermined portion of said electronic document.

14. An apparatus according to claim 13, wherein said predetermined  
5 portion comprises a predetermined number of pages of said electronic document.

15. An apparatus according to claim 13 or 14, wherein said group  
includes a printing function.

10 16. A apparatus according to claim 15, wherein said printing function is  
the only member of said group.

15 17. An apparatus according to any one of the claims 13 to 16, wherein  
said electronic document represents a conglomeration of user selected documents  
obtained via a traversal of a computer network.

18. An apparatus according to claim 17, when not dependent on claim 14,  
wherein said predetermined portion comprises a predetermined number of said selected  
documents.  
20

19. An apparatus according to claim 18, wherein associated with each said  
selected document of said combination is a document location identifier, and said  
predetermined portion is determined using said document location identifiers.

25 20. An apparatus according to any one of claims 17 to 19, wherein said  
manipulation is allowed to proceed only in respect of a predetermined portion of each  
said electronic documents.

21. An apparatus according to claim 20, wherein said predetermined portion comprises a predetermined number of pages of an electronic document.

22. An apparatus according to any one of claims 17 to 21, wherein said group includes a printing function.

23. A method according to any one of claims 15 to 22, wherein said printing function includes a print reduction function.

24. A method according to any one of claims 15 to 23, wherein said printing function includes a print preview function.

25. A computer program product comprising a computer usable medium having computer readable program code means embodied in said medium for manipulating an electronic document automatically created by an application program, said product including:

identifying means for identifying a user involved manipulation of said electronic document to determine if said invoked manipulation is one of a predetermined group of manipulations;

allowing means for allowing said invoked manipulation to proceed if said invoked manipulation is not a member of said group; or if said invoked manipulation is a member of said group, allowing said manipulation to proceed only in respect of a predetermined portion of said electronic document.

26. A computer program product according to claim 25, wherein said predetermined portion comprises a predetermined number of pages of said electronic document.

27. A computer program product according to claim 25 or 26, wherein said group includes a printing function.

28. A computer program product according to claim 27, wherein said  
5 printing function is the only member of said group.

29. A computer program product according to any one of claims 25 to 28, wherein said electronic document represents a conglomeration of user selected documents obtained via a traversal of a computer network.

10

30. A computer program product according to claim 29, when not dependent on claim 26, wherein said predetermined portion comprises a predetermined number of said selected documents.

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31. A computer program product according to claim 30, wherein associated with each said selected document of said combination is a document location identifier, and said predetermined portion is determined using said document location identifiers.

20

32. A computer program product according to any one of claims 29 to 31, wherein said manipulation is allowed to proceed only in respect of a predetermined portion of each said electronic documents.

25

33. A computer program product according to claim 32, wherein said predetermined portion comprises a predetermined number of pages of an electronic document.

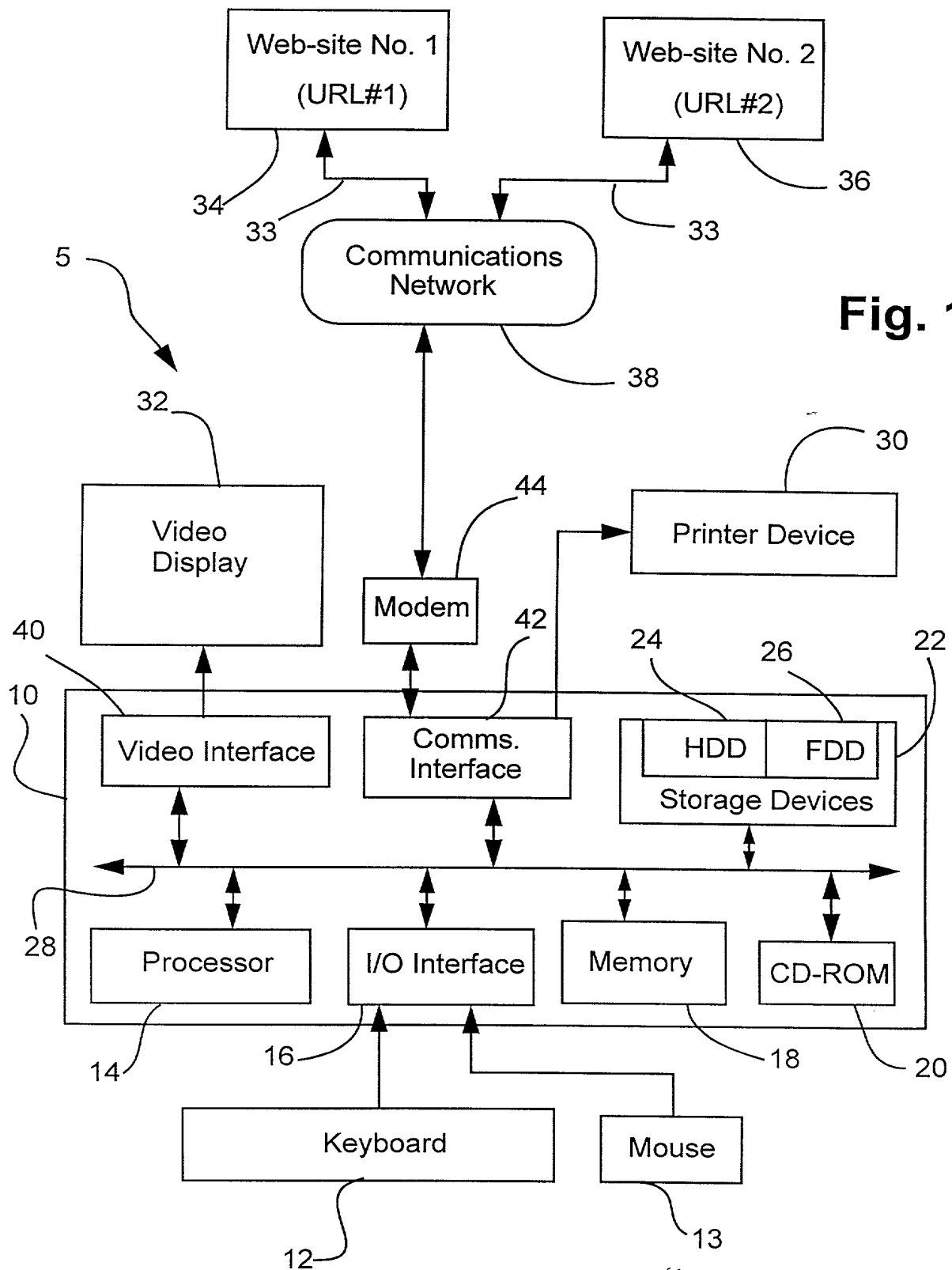
34. A method according to any one of claims 29 to 33, wherein said group includes a printing function.

5            36.        A method according to any one of claims 27 to 35, wherein said  
printing function includes a print preview function.

## ABSTRACT

### PRINT ENABLEMENT IN SOFTWARE SYSTEMS

A method for manipulating an electronic document automatically created by an application program is disclosed. The method comprises the step of identifying a user involved manipulation of the electronic document to determine if the invoked manipulation is one of a predetermined group of manipulations. If the invoked manipulation is not a member of the group, then the invoked manipulation is allowed to proceed. However, if the invoked manipulation is a member of the group, then the manipulation is allowed to proceed only in respect of predetermined portion of the electronic document.

**Fig. 1**

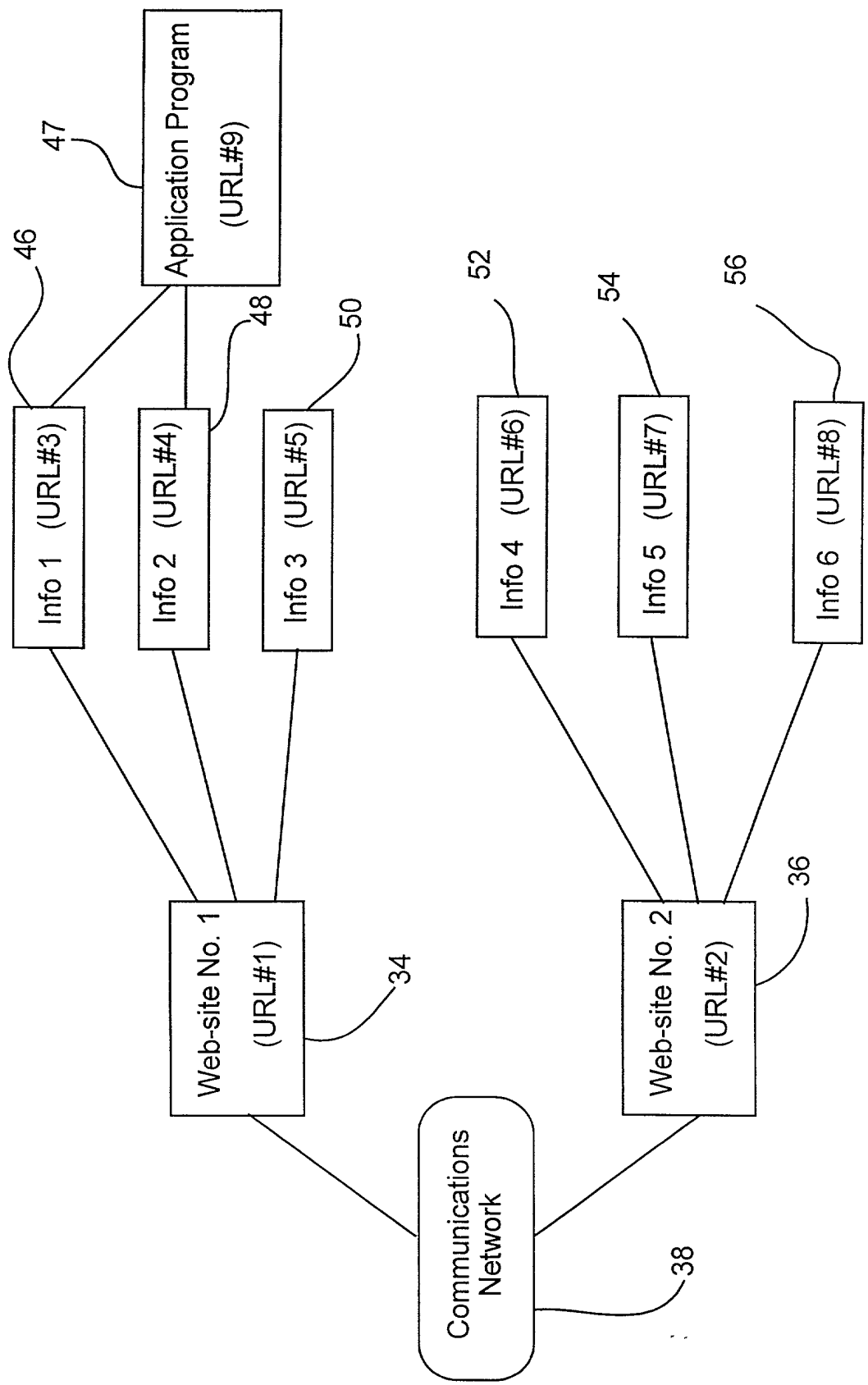
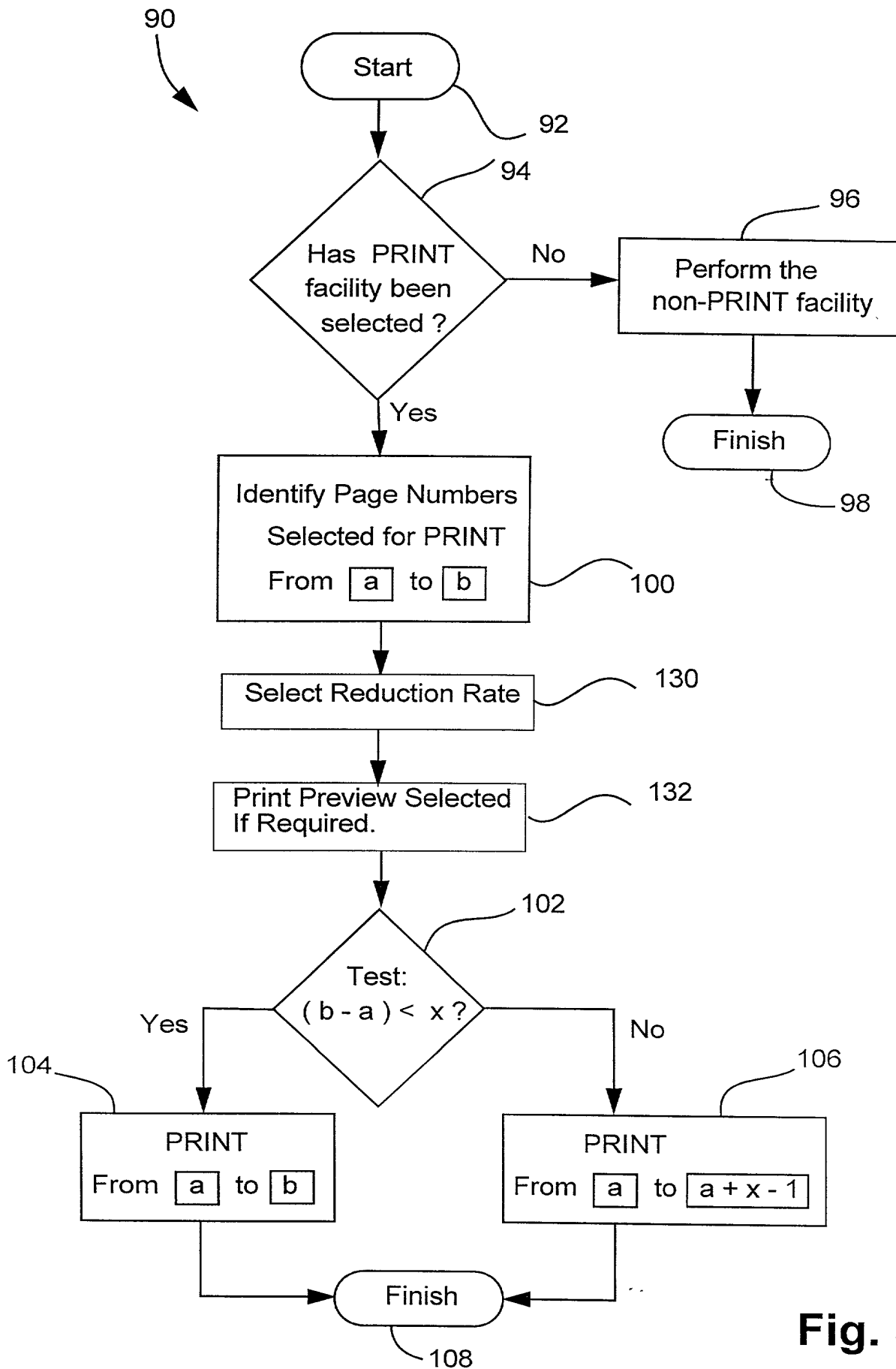
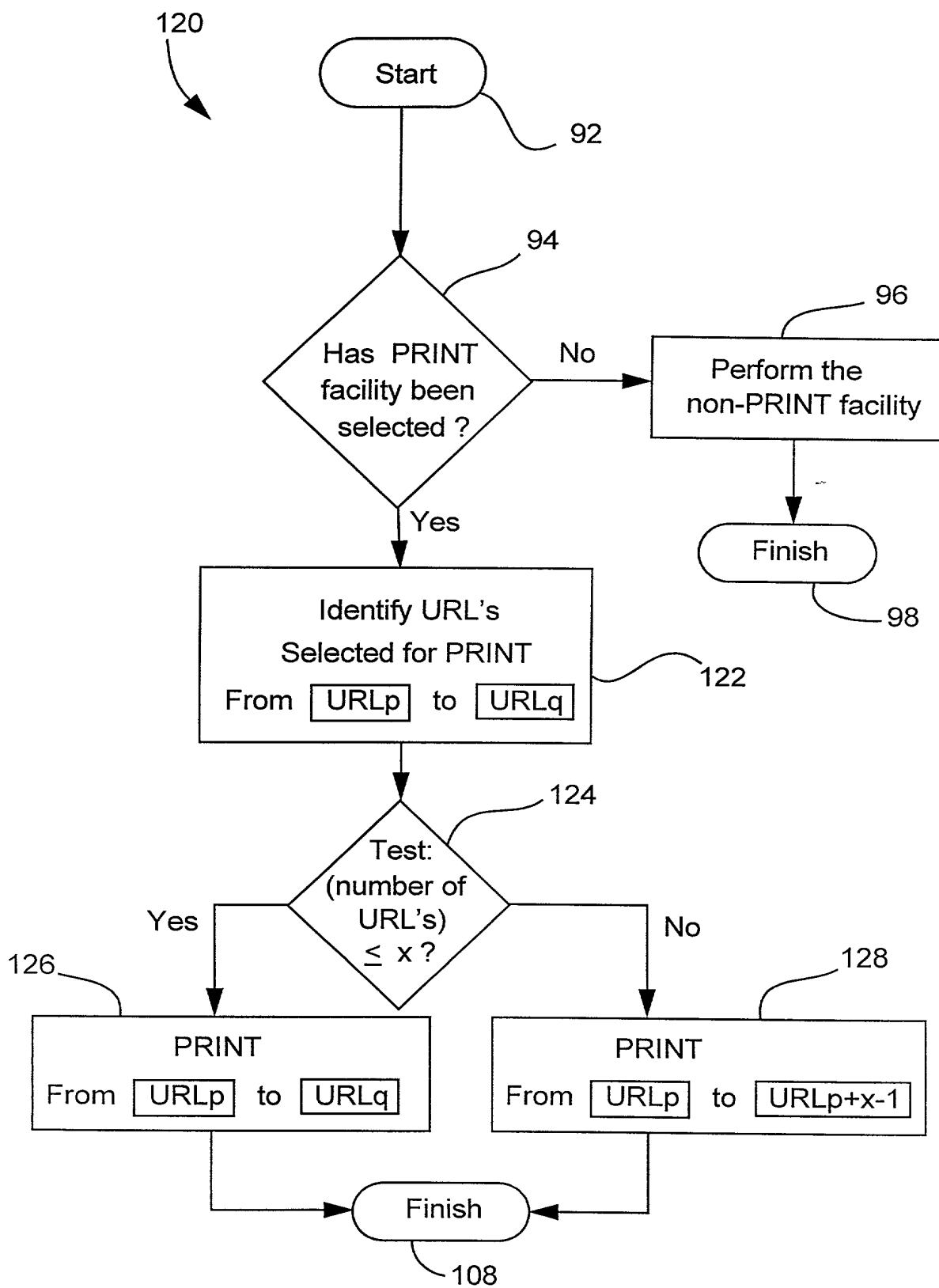


Fig. 2

**Fig. 3**



**Fig. 4**

COMBINED DECLARATION AND POWER OF ATTORNEY  
FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled PRINT  
ENABLEMENT IN SOFTWARE SYSTEMS

the specification of which ☒ is attached hereto ☐ was filed on \_\_\_\_\_ as United States Application  
No. or PCT International Application No. \_\_\_\_\_  
and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR §1.56.

I hereby claim foreign priority benefits under 35 U.S.C. §119(a)-(d) or §365(b), of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designates at least one country other than the United States, listed below and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed:

Country	Application No.	Filed (Day/Mo./Yr.)	(Yes/No) Priority Claimed
Australia	PP4071	12/June/1998	Yes

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or § 365(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

Application No.	Filed (Day/Mo./Yr.)	Status (Patented, Pending, Abandoned)
-----------------	---------------------	--

I hereby appoint the practitioners associated with the firm and Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and direct that all correspondence be addressed to the address associated with that Customer Number:

**FITZPATRICK, CELLA, HARPER & SCINTO**  
Customer Number: 05514

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sole or First Inventor STEPHEN LESLIE TYLER

Inventor's signature \_\_\_\_\_

Date \_\_\_\_\_ Citizen/Subject of AUSTRALIA

Residence 28 Boyd Avenue, West Pennant Hills, New South Wales 2125,  
Australia

Post Office Address c/o CANON KABUSHIKI KAISHA, 30-2, Shimomaruko  
3-chome, Ohta-ku, Tokyo, Japan